



**DEPARTMENT OF TRANSPORTATION**

**Federal Aviation Administration**

**14 CFR Part 39**

**[Docket No. FAA-2014-0159; Directorate Identifier 2014-NE-01-AD]**

**RIN 2120-AA64**

**Airworthiness Directives; Pratt & Whitney Canada Corporation Turboprop Engines**

**AGENCY:** Federal Aviation Administration (FAA), DOT.

**ACTION:** Notice of proposed rulemaking (NPRM).

**SUMMARY:** We propose to adopt a new airworthiness directive (AD) for certain serial number Pratt & Whitney Canada Corporation (P&WC) model PW150A turboprop engines. This proposed AD was prompted by reports of damage to a high-pressure fuel line, which could result in a high-pressure fuel leak into the engine nacelle. This proposed AD would require rerouting of the igniter cables and installation of new support brackets. We are proposing this AD to prevent high-pressure fuel leaks, which could cause engine fire and damage to the engine and the airplane.

**DATES:** We must receive comments on this proposed AD by **[INSERT DATE 60 DAYS AFTER DATE OF PUBLICATION IN THE FEDERAL REGISTER]**.

**ADDRESSES:** You may send comments by any of the following methods:

- Federal eRulemaking Portal: Go to <http://www.regulations.gov> and follow the instructions for sending your comments electronically.

- Mail: Docket Management Facility, U.S. Department of Transportation, 1200 New Jersey Avenue SE., West Building Ground Floor, Room W12-140, Washington, DC 20590-0001.

- Hand Delivery: Deliver to Mail address above between 9 a.m. and 5 p.m., Monday through Friday, except Federal holidays.

- Fax: 202-493-2251.

For service information identified in this proposed AD, contact Pratt & Whitney Canada Corp., 1000 Marie-Victorin, Longueuil, Quebec, Canada, J4G 1A1; phone: 800-268-8000; fax: 450-647-2888; Internet: [www.pwc.ca](http://www.pwc.ca). You may view this service information at the FAA, Engine & Propeller Directorate, 12 New England Executive Park, Burlington, MA. For information on the availability of this material at the FAA, call 781-238-7125.

### **Examining the AD Docket**

You may examine the AD docket on the Internet at <http://www.regulations.gov> by searching for and locating Docket No. FAA-2014-0159; or in person at the Docket Operations office between 9 a.m. and 5 p.m., Monday through Friday, except Federal holidays. The AD docket contains this proposed AD, the mandatory continuing airworthiness information (MCAI), the regulatory evaluation, any comments received, and other information. The street address for the Docket Operations office (phone: 800-647-5527) is the same as the Mail address provided in the **ADDRESSES** section. Comments will be available in the AD docket shortly after receipt.

**FOR FURTHER INFORMATION CONTACT:** Wego Wang, Aerospace Engineer,  
Engine Certification Office, FAA, Engine & Propeller Directorate, 12 New England  
Executive Park, Burlington, MA 01803; phone: 781-238-7134; fax: 781-238-7199; email:  
wego.wang@faa.gov.

**SUPPLEMENTARY INFORMATION:**

**Comments Invited**

We invite you to send any written relevant data, views, or arguments about this proposed AD. Send your comments to an address listed under the **ADDRESSES** section. Include “Docket No. FAA-2014-0159; Directorate Identifier 2014-NE-01-AD” at the beginning of your comments. We specifically invite comments on the overall regulatory, economic, environmental, and energy aspects of this proposed AD. We will consider all comments received by the closing date and may amend this proposed AD based on those comments.

We will post all comments we receive, without change, to <http://www.regulations.gov>, including any personal information you provide. We will also post a report summarizing each substantive verbal contact with FAA personnel concerning this proposed AD.

**Discussion**

Transport Canada Civil Aviation, which is the aviation authority for Canada, has issued Transport Canada AD CF-2014-09, dated February 12, 2014, (referred to hereinafter as “the MCAI”), to correct an unsafe condition for the specified products. The MCAI states:

There have been reports of damage in excess of acceptable criteria to the high pressure fuel line from the P&WC PW150A engine

flowmeter to the flow divider. Damage has included fretting wear through contact with the engine igniter cables. The contact is the result of incorrectly routed igniter cables. While there has been no report of associated fuel leakage, the fretting wear, if undetected, could progress to a point where high pressure fuel would leak into the engine nacelle.

You may examine the MCAI in the AD docket on the Internet at

<http://www.regulations.gov> by searching for and locating it in Docket No. FAA-2014-0159.

### **Relevant Service Information**

P&WC has issued Service Bulletin (SB) No. PW150-72-35274, Revision 1, dated May 3, 2012. The SB describes procedures for rerouting the igniter cables and installing new support brackets.

### **FAA's Determination and Requirements of This Proposed AD**

This product has been approved by the aviation authority of Canada, and is approved for operation in the United States. Pursuant to our bilateral agreement with Canada, they have notified us of the unsafe condition described in the MCAI and service information referenced above. We are proposing this AD because we evaluated all information provided by Transport Canada Civil Aviation and determined the unsafe condition exists and is likely to exist or develop on other products of the same type design. This proposed AD would require rerouting of the igniter cables and installation of new support brackets.

### **Costs of Compliance**

We estimate that this proposed AD affects 180 engines installed on airplanes of U.S. registry. We also estimate that it would take about 1 hour per engine to comply with this proposed AD. The average labor rate is \$85 per hour. Required parts cost about \$682

per engine. Based on these figures, we estimate the cost of this proposed AD on U.S. operators to be \$138,060.

### **Authority for This Rulemaking**

Title 49 of the United States Code specifies the FAA's authority to issue rules on aviation safety. Subtitle I, section 106, describes the authority of the FAA Administrator. "Subtitle VII: Aviation Programs," describes in more detail the scope of the Agency's authority.

We are issuing this rulemaking under the authority described in "Subtitle VII, Part A, Subpart III, Section 44701: General requirements." Under that section, Congress charges the FAA with promoting safe flight of civil aircraft in air commerce by prescribing regulations for practices, methods, and procedures the Administrator finds necessary for safety in air commerce. This proposed regulation is within the scope of that authority because it addresses an unsafe condition that is likely to exist or develop on products identified in this rulemaking action.

### **Regulatory Findings**

We determined that this proposed AD would not have federalism implications under Executive Order 13132. This proposed AD would not have a substantial direct effect on the States, on the relationship between the national Government and the States, or on the distribution of power and responsibilities among the various levels of government.

For the reasons discussed above, I certify this proposed regulation:

(1) Is not a "significant regulatory action" under Executive Order 12866,

(2) Is not a “significant rule” under the DOT Regulatory Policies and Procedures (44 FR 11034, February 26, 1979),

(3) Will not affect intrastate aviation in Alaska to the extent that it justifies making a regulatory distinction, and

(4) Will not have a significant economic impact, positive or negative, on a substantial number of small entities under the criteria of the Regulatory Flexibility Act.

#### **List of Subjects in 14 CFR Part 39**

Air transportation, Aircraft, Aviation safety, Incorporation by reference, Safety.

#### **The Proposed Amendment**

Accordingly, under the authority delegated to me by the Administrator, the FAA proposes to amend 14 CFR part 39 as follows:

#### **PART 39 - AIRWORTHINESS DIRECTIVES**

1. The authority citation for part 39 continues to read as follows:

Authority: 49 U.S.C. 106(g), 40113, 44701.

#### **§ 39.13 [Amended]**

2. The FAA amends § 39.13 by adding the following new airworthiness directive (AD):

**Pratt & Whitney Canada Corporation:** Docket No. FAA-2014-0159; Directorate Identifier 2014-NE-01-AD.

#### **(a) Comments Due Date**

We must receive comments by **[INSERT DATE 60 DAYS AFTER DATE OF PUBLICATION IN THE FEDERAL REGISTER]**.

**(b) Affected ADs**

None.

**(c) Applicability**

This AD applies to Pratt & Whitney Canada Corporation (P&WC) model PW150A turboprop engines, serial number PCE-FA0916 and earlier.

**(d) Reason**

This AD was prompted by reports of damage to a high-pressure fuel line, which could result in a high-pressure fuel leak into the engine nacelle. We are issuing this AD to prevent high-pressure fuel leaks, which could cause engine fire and damage to the engine and the airplane.

**(e) Actions and Compliance**

Comply with this AD within the compliance times specified, unless already done.

(1) At the next shop visit, but before 36 months from the effective date of this AD, reroute the igniter cables and install new support brackets in accordance with Accomplishment Instructions, paragraph 3.B., of P&WC Service Bulletin (SB) No. PW150-72-35274, Revision 1, dated May 3, 2012.

(2) Reserved.

**(f) Definition**

For the purpose of this AD, a shop visit is when the engine is disassembled to the extent necessary to gain access to the igniter cables.

**(g) Credit for Previous Action**

If you performed the actions of paragraph (e) of this AD before the effective date of this AD using P&WC SB No. PW150-72-35274, Initial Issue, dated March 23, 2012, you met the requirements of this AD.

**(h) Alternative Methods of Compliance (AMOCs)**

The Manager, Engine Certification Office, FAA, may approve AMOCs to this AD. Use the procedures found in 14 CFR 39.19 to make your request.

**(i) Related Information**

(1) For more information about this AD, contact Wego Wang, Aerospace Engineer, Engine Certification Office, FAA, Engine & Propeller Directorate, 12 New England Executive Park, Burlington, MA 01803; phone: 781-238-7134; fax: 781-238-7199; email: [wego.wang@faa.gov](mailto:wego.wang@faa.gov).

(2) Refer to MCAI Transport Canada AD CF-2014-09, dated February 12, 2014, for more information. You may examine the MCAI in the AD docket on the Internet at <http://www.regulations.gov> by searching for and locating it in Docket No. FAA-2014-0159.

(3) P&WC SB No. PW150-72-35274, Revision 1, dated May 3, 2012, pertains to the subject of this AD and can be obtained from P&WC using the contact information in paragraph (i)(4) of this AD.

(4) For service information identified in this AD, contact Pratt & Whitney Canada Corp., 1000 Marie-Victorin, Longueuil, Quebec, Canada, J4G 1A1; phone: 800-268-8000; fax: 450-647-2888; Internet: [www.pwc.ca](http://www.pwc.ca).



(5) You may view this service information at the FAA, Engine & Propeller Directorate, 12 New England Executive Park, Burlington, MA. For information on the availability of this material at the FAA, call 781-238-7125.

Issued in Burlington, Massachusetts, on April 3, 2014.

**Colleen M. D'Alessandro,**  
*Assistant Directorate Manager, Engine & Propeller Directorate,  
Aircraft Certification Service.*

**[Billing Code: 4910-13-P]**

**[FR Doc. 2014-08009 Filed 04/09/2014 at 8:45 am; Publication Date: 04/10/2014]**